

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

---

1. (original) A MRI RF coil array, said array comprising:  
a first coil having a null  $B_1$  point and a quasi-one-peak sensitivity profile; and  
a second coil oriented with respect to said first coil to reduce coupling.
2. (Original) A MRI RF coil array according to claim 1, wherein said second coil is within said first coil.
3. (original) A MRI coil array according to claim 1, wherein said second coil overlaps said first coil.
4. (original) A MRI coil array according to claim 1, wherein said second coil is cascaded with said first coil.
5. (original) A MRI coil array according to claim 1, wherein said second coil is solenoidal.
6. (currently amended) A MRI coil array, said array comprising:  
a first solenoidal coil having a first section and a second section, said first section having more turns than said second section and said second section having a counter-rotational orientation with respect to said

first section, said first coil having a quasi-one-peak sensitivity profile; and  
a second solenoidal coil, said second coil being oriented with respect to said first coil to reduce coupling.

7. (original) A MRI coil array according to claim 6, wherein said second coil is oriented between said first and second sections.

8. (original) A MRI coil array according to claim 6, wherein said second coil is oriented about said second section.

a1 9. (original) A MRI coil array according to claim 6, wherein said second coil is cascaded with said first coil.

10. (new) A MRI coil array, said array comprising:  
a first solenoidal coil having a first section and a second section, said first section having more turns than said second section and said second section having a counter-rotational orientation with respect to said first section; and  
a second solenoidal coil, said second coil being oriented with respect to said first coil to reduce coupling wherein said second coil is oriented about said second section.

11. (new) A MRI coil array, said array comprising:  
a first solenoidal coil having a first section and a second section, said first section having more turns than said second section and said second section having a counter-rotational orientation with respect to said first section; and

Appl. No. 10/085,347  
Amdt. dated July 22, 2003  
Reply to Office action of April 23, 2003

01 a second solenoidal coil, said second coil being oriented  
with respect to said first coil to reduce coupling,  
wherein said second coil is cascaded with said first  
coil.

---